

ISSI Consulting Group

999 18th Street, Suite 1450
Denver, CO 80202
ph 303.292.4142 • fax 303.292.4926

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postmaster@issiinc.com
www.issiinc.com

MEMORANDUM

To: Bonnie Lavelle, Chris Weis
From: Adrian Bradley, Mary Goldade
Date: December 13, 1999
Project: Vasquez Boulevard and I-70
Re: Minimum Detection Limit Study for Arsenic and Lead in Site Soils: Study #4
cc: Project Files

This memorandum provides the information necessary to perform the last of four method detection limit (MDL) studies, using soils collected at the VBI70 site. The goal of the studies is to identify the MDL for arsenic and lead in multiple soils that are representative of soils across the site boundaries.

General Approach

As discussed at the October 8, 1999 meeting, each MDL study will be comprised of 4 different site soils, three of which were collected from residential properties within the study area and one that was collected at the 'baseline' soil site.

Sample selection over the course of the four MDL studies will alternate among the five neighborhoods so that soils across the study area are represented. The number of samples that have been included from each neighborhood and from the baseline soil is provided in Table 1.

R:\Vasquez & I-70\Phase III\MDL Study-Proficiency\XRF\MDL Study (12-13-99)\MDL memo.wpd

Contract No.: N00174-99-D-003

Delivery Order No.: 0002

Purchase Request No.: 9203.3858

EPA IAG No.: DW17953800-01-0

Account No.: 99T8ALOP50102D-089RED00

**Table 1. Number of Properties from each Neighborhood**

Neighborhood	Number of Properties
Cole	3
Clayton	3
Five Points	2
Globeville	2
Swansea/Elyria	2
Baseline	4

All samples must be dried and sieved using the #10 sieve prior to analysis (The baseline soil has been dried but should also be sieved using a #10 sieve). A minimum mass of 70 g (10 g for each replicate sample) of the prepared sample is required. The MDL study will be performed in accordance with the Phase III Field Investigation Project Plan (USEPA 1999).

Candidate Samples

These site soils for MDL Study #4 were selected by querying the Phase III database for yard soil samples containing arsenic concentrations between 10 and 15 mg/kg. From the resulting list, one sample each from Clayton, Cole, and Swansea/Elyria was selected. The three samples to be included in MDL Study #4 are provided in Table 2. Seven aliquots of the soil from the baseline site have been prepared, and will be delivered under chain-of-custody to the VBI70 Field Office on Monday, December 13, 1999. A copy of the chain-of-custody form is attached.

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Table 2. List of Residential Samples for MDL Study #4

Property Address	Neighborhood	Sample ID Number
3228 Madison Street	Clayton	3-02847-B
3236 High Street	Cole	3-00100-B
5070 Adams Street	Swansea/Elyria	3-03408-B

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Attachment

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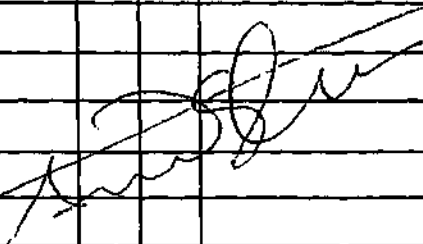
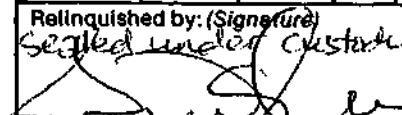
Purchase Request No.: 9203.3858

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Account No.: 99T8ALOP50102D-089RED00

CHAIN OF CUSTODY RECORD

REGION VIII, ONE DENVER PLACE,
999 18TH. STREET
DENVER, CO. 80202-2413

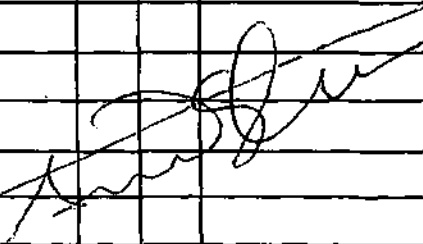
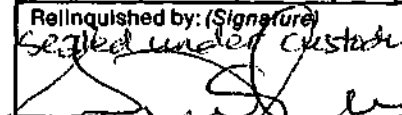
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SAMPLERS: (Signature)												
STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
	12-8-99	1500	✓		MDL 6-1	1	✓	✓				
			✓		MDL 6-2	1	✓	✓				
			✓		MDL 6-3	1	✓	✓				
			✓		MDL 6-4	1	✓	✓				
			✓		MDL 6-5	1	✓	✓				
			✓		MDL 6-6	1	✓	✓				
	12	11	✓		MDL 6-7	1	✓	✓				
 12-8-99												
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 12/8/99 1500						12/8/99 1500						
Relinquished by: (Signature)						Date/Time		Received by: (Signature)		Relinquished by: (Signature)		
Relinquished by: (Signature)						Date/Time		Received for Laboratory by: (Signature)		Date/Time		
										Remarks		

Distribution: Original Accompanies Shipment. First Copy to Coordinator Field Files: Second Copy to Representative of Inspected Facility

Split Samples:
☐ Accepted ☐ Declined
 Signature _____

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REGION VIII, ONE DENVER PLACE
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PROJ. NO.		PROJECT NAME					NO. OF CON- TAINERS	REMARKS					
SAMPLERS: (Signature)													
STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								
	12-8-99	1500	✓		MDL 6-1	1	✓	✓					
			✓		MDL 6-2	1	✓	✓					
			✓		MDL 6-3	1	✓	✓					
			✓		MDL 6-4	1	✓	✓					
			✓		MDL 6-5	1	✓	✓					
			✓		MDL 6-6	1	✓	✓					
	12	11	✓		MDL 6-7	1	✓	✓					
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